

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION – 2024 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GENERAL SCIENCE & ABILITY

TIME ALLOWED: THREE HOURS
PART-I(MCQS): MAXIMUM 30 MINUTES
PART-II MAXIMUM MARKS = 20
PART-II MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

- (ii) Attempt ALL questions from PART-II.
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
- (iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
- (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
- (vi) Extra attempt of any question or any part of the question will not be considered.



FEDERAL PUBLIC SERVICE COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO

Roll Number

MPETITIVE EXAMINATION-2024 RECRUITMENT POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT POSTS IN BS-17 UNDER THE FEB.

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY) MAXIMUM MARKS: 20

PART-I (MCQs) : MAXIMUM 30 MINUTES (PART-II) MAXIMUM MARKS: 80 PART-I (MCOs) : MAXIMUM 30 MINUTES 10 OMR Answer Sheet which shall be taken back NOTE: (0) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back

(ii) Overwriting/cutting of the options/answers will not be given credit. (iii) There is no negative marking. All MCQs must be attempted.

PART-I (MCQs)(COMPULSORY)

O.1. (i) Select the best option/answer and fill in the appropriate Box | on the

Q.	 (i) Select the best option/answer and fill in the (ii) Answers given anywhere else, other than 	ie appropriate Box on the OMR An OMR Answer Sheet, will not be cons	swer Sheet. (20x1=20 idered.
1.	In fish liver oil there is: (A) Vitamin A only (B) Vitamin D only (C	Vitamin A and vitamin E (D) Vitam	in A and Vitamin D
2.	When day and night are equal? (A) 23 rd February and 21 rd September	(B) 21st march and 23rd Septemb	
	(C) 23 rd march and 21 st September	(D) None of these	
3.	What are total number of combinations of 0	(FX) P.4	
	(A) 18 (B) 27	(C) 48	(D) 84
4.	The aborded formula for alumis:		
7-	(A) KAl(SO ₄) ₂ ·12 H ₂ O (B) KSi(SO ₄) ₂ ·12 H	H ₂ O (C) KAI(SO ₄) ₂ -8 H ₂ O	(D) None of these
2942	If the radius of a circle is increased three tin	nes then its area is increased:	
5.		(C) Nine times	(D) None of these
	(A) Three times (B) Six times		
6.	One degree of longitude on the equator is eq	(C) 39 miles	(D) 60 miles
	(A) 49 miles (B) 69 miles		
7.	The protein molecule is made of: (A) Alkaloids (B) Nucleosides (C) Short ran	to a famina agids (D) Long range	chain of amino acids
	(A) Alkaloids (B) Nucleosides (C) Short ran	ge chain of amino acids (D) Long range	
S.	The minimum amount of vitamin stored in t	ne number trong to	(D) Vitamin A
	(A) Vitamin D (B) Vitamin C	(C) Vitaliini E	127
9.	The isotopes of any element contain equal nu	umber of:	(D) None of these
	(A) Protons (B) Neutrons	(C) Both electrons and protons	
10.	The pH of soil is raised using:	CO Uses	(D) None of these
	(A) Lime stone (B) Gypsum	(C) Urea	
11.	Which of the following is used for measuring distance:		(D) Curie
	(A) Coulomb (B) light year	(C) Farad	each compound?
12.	(A) Coulomb Which of the following contains a greater nu	imber of carbon atoms in one more of	(D) Ethanol
1.40	(A) Chloroform (B) Methanol		(L) Limit
13.	A popul dipped in water appears bent due to:		
13.	(A) Reflection (B) Diffraction	- (C) Refraction	(D) None of these

Fishes die outside the water due to: (D) Non-absorption of oxygen 14. (C) Sun light

(B) Oxygen (A) Carbon mono oxide In dementia a person: (B) Loses thinking and writing (A) Loses his weight (D) All of these (C) Loses thinking, remembering, and reasoning

16. Earthquake is measured by the instrument: (D) Hydrometer (C) Seismograph (B) Barometer (A) Wave guide A cyclone is formed: (B) When moist air rises upward over the ocean 17.

When the warm air rises upward over the ocean (A) When the warm air rises upward over the ocean
(C) When moist air pressed downward over the ocean (D) When warm, moist air rises upward over the ocean Why red light is used in traffic signal for danger? 18. (B) Due to high frequency

(A) Due to short wavelength (D) It has long wavelength and short frequency (C) It has long wavelength and high frequency The heavy water is: (B) Denoted by H₂O and contains deuterium 19. (A) Denoted by D2O and contains simple hydrogen (D) Denoted by H₂O and contains simple hydrogen

(C) Denoted by D2O and contains deuterium The ionosphere is located within the thermospher and extends: (B) From 50-200 km above the Earth's surface

(A) From 60-300 km above the Earth's surface (C) From 50-300 km above the Earth's surface (D) None of the above Page 1 of 3

GENERAL KNOWLEDGE-L(GENERAL SCIENCE & ABILITY)

	PART-II	
(0	Part-H is to be attempted on the separate Answer Hook. Attempt ONLY FOUR questions from PART-H by selecting TWO questions from EACH. ALL questions carry FQUAL marks. All the parts (if any) of each Question must be attempted at one place instead of at different p. All the parts (if any) of each Question must be attempted at one place instead of at different p. Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper. No Page Space be left blank between the answers. All the blank pages of Answer Book in the Answer Book	laces.
	(SECTION - A)	(5)
Q. 2, (a)	What is the Tuberculosis and Hepatitis? Explain briefly.	(5)
(b)	Explain the mechanism of Fiber Optic Cable for signal. Explain its construction.	(5)
(c)	Explain the difference between Middle Latitude Cyclones and Tornadoes.	(5) (20)
(d)	What is difference between the Ionic and Covalent bonding? Give examples.	(3) (24)
		Sec.
Q. 3. (a)	What is difference between Plastics and Elastics? Explain briefly.	(5)
(b)	What is role of Remote sensing and GIS in environmental Science? Discuss briefly.	(5)
(c)	What are Kepler laws related to the motion of planets?	(5)
(d)	What is difference between preservatives and antioxidants? Discuss briefly with examples.	(5) (20)
0.10	What is role of Carbohydrates and Vitamins in the body? Discuss briefly.	(5)
Q. 4. (a)	PLANTANCE AND DESCRIPTION OF THE PROPERTY OF T	(5)
(b)	What are the standards of drinking water? How Heavy Metals in the water	
(d)	What is radioactivity? Discuss the laws of radioactivity. Name two radioactive elements.	(5) (20)
0 5 (0)	What are the Plant nutrition elements? Enumerate them.	(5)
Q. 5. (a)	What is difference between software and hardware? Give five examples of each.	(5)
(b)	What are the types of earthquake waves? Discuss them.	(5)
(c)	What are longitudinal waves, electromagnetic and Gamma radiations? Discuss them.	(5) (20)
(d)	What are tonghedring waves, sectioning finite and common recommendations	STA STATE
	A Company on	
	(SECTION – B)	
Q. 6. (a)	If the sum of four numbers is 105, When 03 is added to a number, twice of another number, five times of third number and fourth number become equal to each other. What are these numbers in ascending order?	(5)
(b)	Find out the correct word from the given jumbled spellings. (i) UCTREUTRS (ii) LOVONAC (iii) CIHPROSTATAC (iv) YNTIAUMH (v) NNTHORER	(5)
(c)	Find the missing numbers in the series below (i) 121, 11, 81, 9, ?, 7 (ii) 100, 50, 25, ?, 6.25 (iv) 2, 5, 12, 24, 48, ? (v) 44, 22, 66, 33, 132, ? (iii) 4, 9, 64, 125, 1296, ?	(5)
(d)	If the sum of three digit number is 15 and sum of 10 th and unit digit is 12. The difference of unit digit from 10 th digit is equal to 02. What is the three digit number?	(5) (20)

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

- Q.7 (a) A man travels over the path of a right-angle triangle having base and hypotenuse 4 (5) and 5 kilometers, respectively. After a complete round he continues in the same and 5 kilometers, respectively. After a complete round for another 8 km. How direction for 6 km and then turns at 90 degree and continues for another 8 km. How direction for 6 km and then turns at 90 degree and point?
 - (b) Hassan, Ali, Akbar, Nasir and Shahbaz are classmates having different pocket (5) money. Hassan's pocket money is one third as much as of Ali and Ali has five times as much as Akbar. Akbar has thrice as much as Nasir and Shahbaz gets equal to Nasir and that of Ali. If they get Rs. 8000 then find the pocket money of each.
 - (e) What will be the surface area and volume of a sphere if it has a radius of 7 m? (5)
 - (d) Distribute Rs. 4320 among Zain, Aslam and Ashraf in such a way that if zain gets 2 (5) (20) parts then Aslam gets three parts, whereas Ashraf gets seven parts.
- Q. 8. (a) A man purchases a car in an amount of Rs. 2400,000 in which he pays one-fourth extra as profit. Find the original amount of car and the amount of profit.
 - (b) Twelve men can complete a job in twenty-four days. After four days four person (5) quit. In how many days this job will be completed by the remaining persons.
 - (c) The shadow of a 10 m tall tree is falling on a high rise building and its height is 100 (5) m. If the tree is 20 m away from the wall, at what distance from the wall is the light source?
 - (d) There are three cars and start moving in such a way that car A and B are moving opposite with speed 60 and 100 km/h. Car C is moving perpendicularly to both with speed 80 km/h. What is distance after 15 minutes between (i) A and B (ii) A and C (iii) B and C?
